

Overview and National Traffic Scorecard

Bryan Mistele, CEO, INRIX



Washington State Transportation Commission
March 18, 2009

Agenda

- About INRIX
- Public Sector Applications
- Traffic Scorecard



The screenshot shows the INRIX website homepage. At the top is the INRIX logo and the tagline "THE LEADING PROVIDER OF TRAFFIC INFORMATION". A navigation bar includes links for "WHY INRIX", "SERVICES", "TECHNOLOGY", "INDUSTRY SOLUTIONS", "PARTNERS", "SCORECARD", and "ABOUT US". A "Partner Login" link is in the top right. The main banner features a map of the United States with three circular callouts highlighting traffic in Los Angeles, Chicago, and New York. To the right of the map, text reads "800,000 miles of traffic with Total Fusion". Below the banner is a section titled "The INRIX Advantage" with a descriptive paragraph and three key features: "Broadest Coverage" (Real-time traffic for 18 countries), "Exceptional Accuracy" (Using technology and independent validation to ensure the highest quality), and "Innovative Technologies" (What INRIX is doing is truly unique: Traffic forecasts and predictions). The bottom section is divided into three columns: "Recent Press Releases" (listing two articles about traffic congestion and data quality), "Recent News Coverage" (listing a news item about traffic congestion in Cleveland), "INRIX National Traffic Scorecard 2008 Annual Report" (with a link to view the report), and "Benchmarking Traffic Data Quality" (with a link to request the report).

INRIX THE LEADING PROVIDER OF TRAFFIC INFORMATION [Partner Login](#)

[WHY INRIX](#) [SERVICES](#) [TECHNOLOGY](#) [INDUSTRY SOLUTIONS](#) [PARTNERS](#) [SCORECARD](#) [ABOUT US](#)

800,000 miles of traffic with Total Fusion

The INRIX Advantage

INRIX® is the leading provider of real-time, historical and predictive traffic information offering the broadest coverage, exceptional accuracy and innovative technologies to ensure the success of our customer's navigation and traffic-enabled solutions

- Broadest Coverage**
Real-time traffic for 18 countries
- Exceptional Accuracy**
Using technology and independent validation to ensure the highest quality
- Innovative Technologies**
What INRIX is doing is truly unique: Traffic forecasts and predictions

Recent Press Releases

INRIX National Traffic Scorecard Reveals Startling 30 Percent Decrease in Traffic Congestion in 2008
PR Newswire, 2/25/2009

I-95 Corridor Coalition Validates Quality of INRIX GPS-Enabled Traffic Probe Data in Comprehensive Study Across 4 States
PR Newswire, 2/17/2009

[More Press Releases »](#)

Recent News Coverage

Recession means less traffic congestion on Cleveland roads, study finds
Cleveland Plain Dealer, 3/4/2009

INRIX National Traffic Scorecard 2008 Annual Report

[View the INRIX National Traffic Scorecard 2008 Annual Report](#)

Benchmarking Traffic Data Quality

[Request the Benchmarking Traffic Data Quality report](#)

About INRIX



A History of Innovation

INRIX forms partnership with Clear Channel Total Traffic Network



INRIX formed, spins out predictive traffic IP from Microsoft



INRIX launches "Smart Dust Network" featuring exclusive access to GPS Probe data from over 500k vehicles



INRIX Delivers Real-Time Speed & Flow Information for 36 Metropolitan Markets



INRIX Announces Dynamic Fuel Prices Service

INRIX Introduces Real-Time & Predictive Traffic Application for Windows Mobile



INRIX Real-Time Flow Coverage Reaches Milestone of 100 U.S. Markets

MapQuest & INRIX Deliver Traffic-Enabled Navigation Solutions
MAPQUEST.

INRIX Offers Pan-European Road Traffic Information, with coverage in 16 countries



INRIX Launches Real-Time Traffic Flow coverage in Canada

INRIX Launches Real-Time Traffic Flow Across Europe

2005

J F M A M J J A S O N D

INRIX launches initial 15 markets of traffic based on DOT data



INRIX forms partnership with Tele Atlas and acquires TA's Traffic Operations Group



2006

J F M A M J J A S O N D

INRIX launches traffic across UK



Frost & Sullivan Study Recognizes INRIX as the Leading Provider of Real-Time Traffic



INRIX launches Nationwide Average Speeds, offering historical coverage on 750K miles of roads

INRIX Expands Real-Time Traffic Flow to 73 US Markets & 47K Road Miles

2007

J F M A M J J A S O N D

TomTom Includes INRIX on all US Traffic-Enabled Content and Services



TeleNav Inc. Selects INRIX as Traffic Information Partner for TeleNav Navigator



2008

J F M A M J J A S O N D

INRIX Launches Connected Services platform and world's first 3rd Generation Routing Engine



INRIX Launches Real-Time Traffic Alerts Across U.S. Highway System



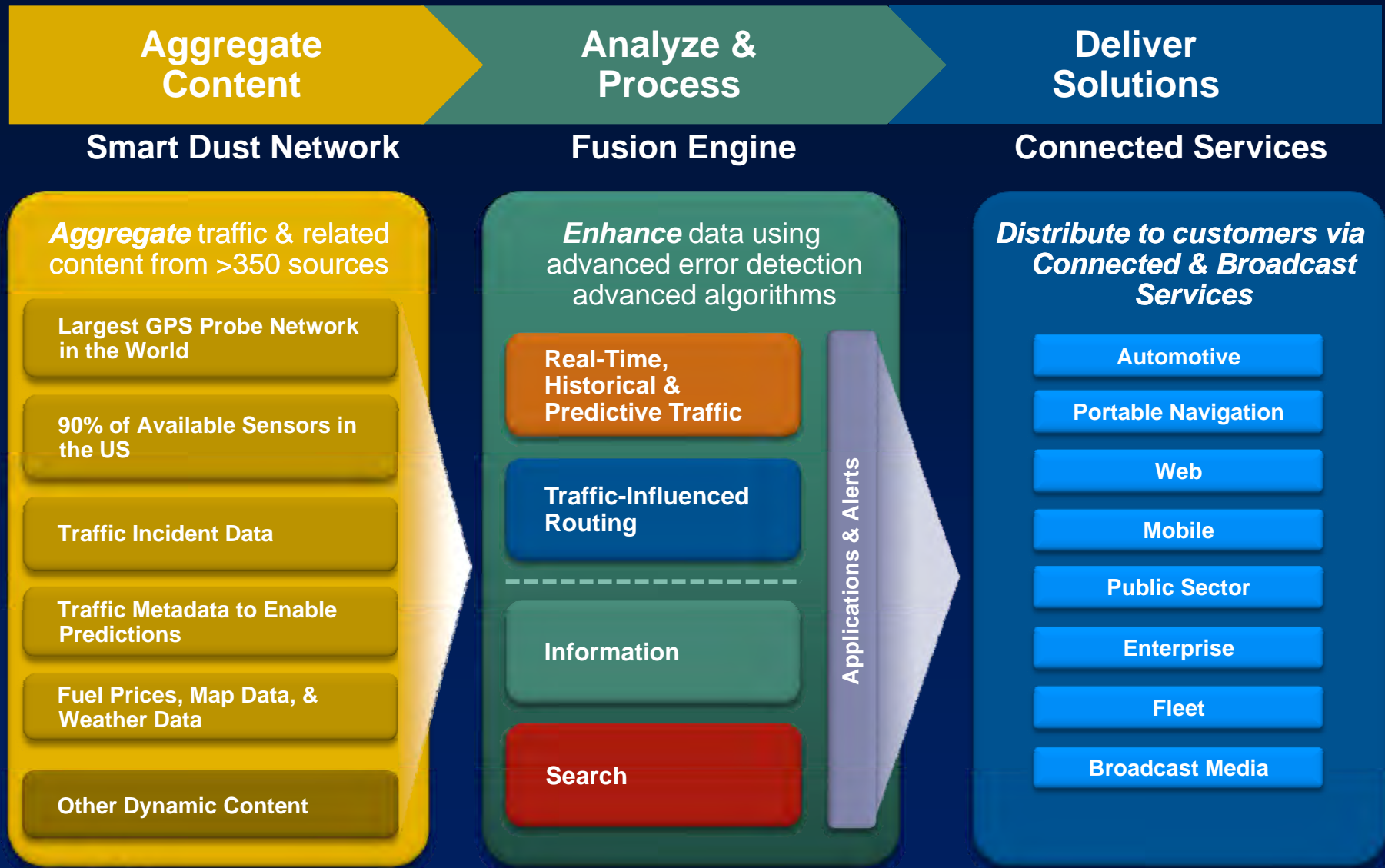
INRIX Deliver Real-Time Traffic Information for 16 State I-95 Corridor

First Telematics Solution Using INRIX Connected Services Launches

2009

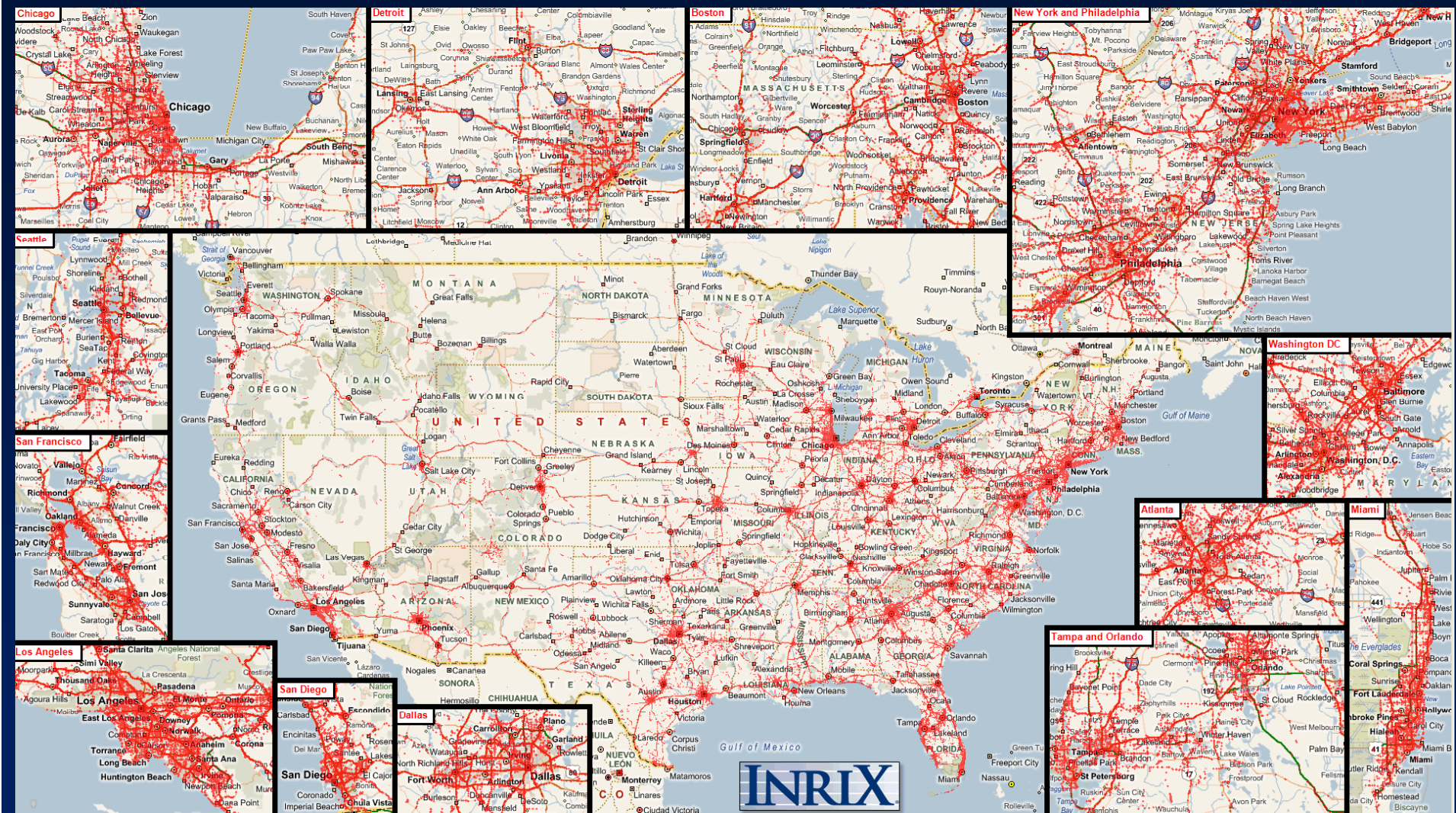
J F M A M J J

What We Do



GPS Probe Network

Over 1B usable GPS data points per month, 500K every 15 minutes



INRIX Key Customers

Channels

Key Customers

Portable
Navigation



Automotive



Mobile Devices



Web Portals &
Broadcast Media



Public Sector



Fleet &
Enterprise



* Others not announced

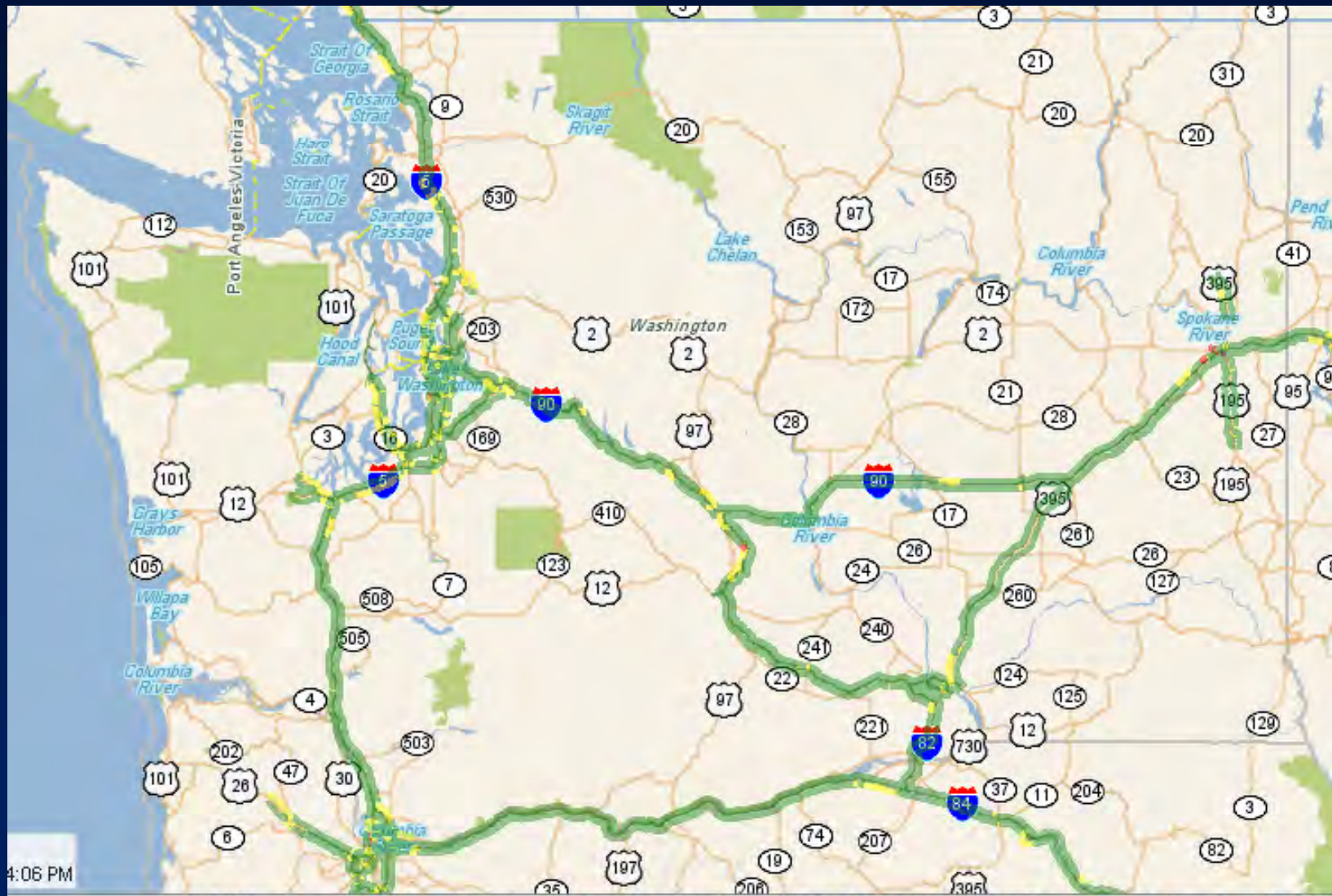
Select INRIX Traffic-Enabled Devices



INRIX Real-Time Flow/Alert Coverage



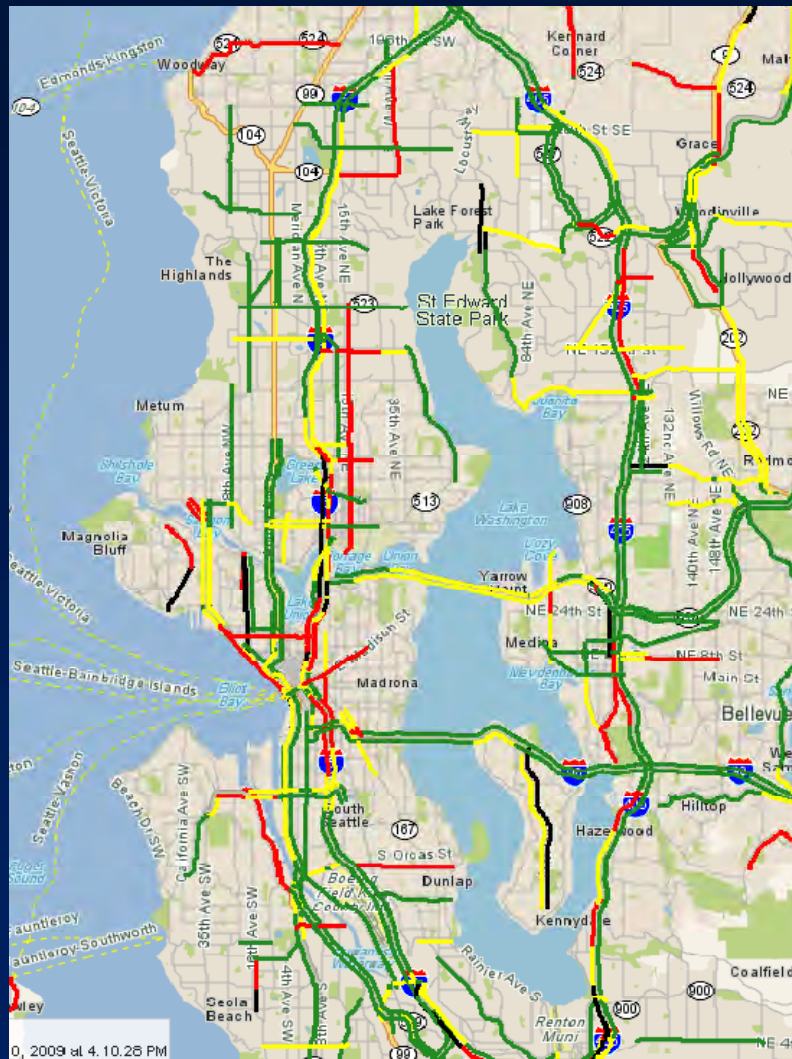
Washington State Coverage



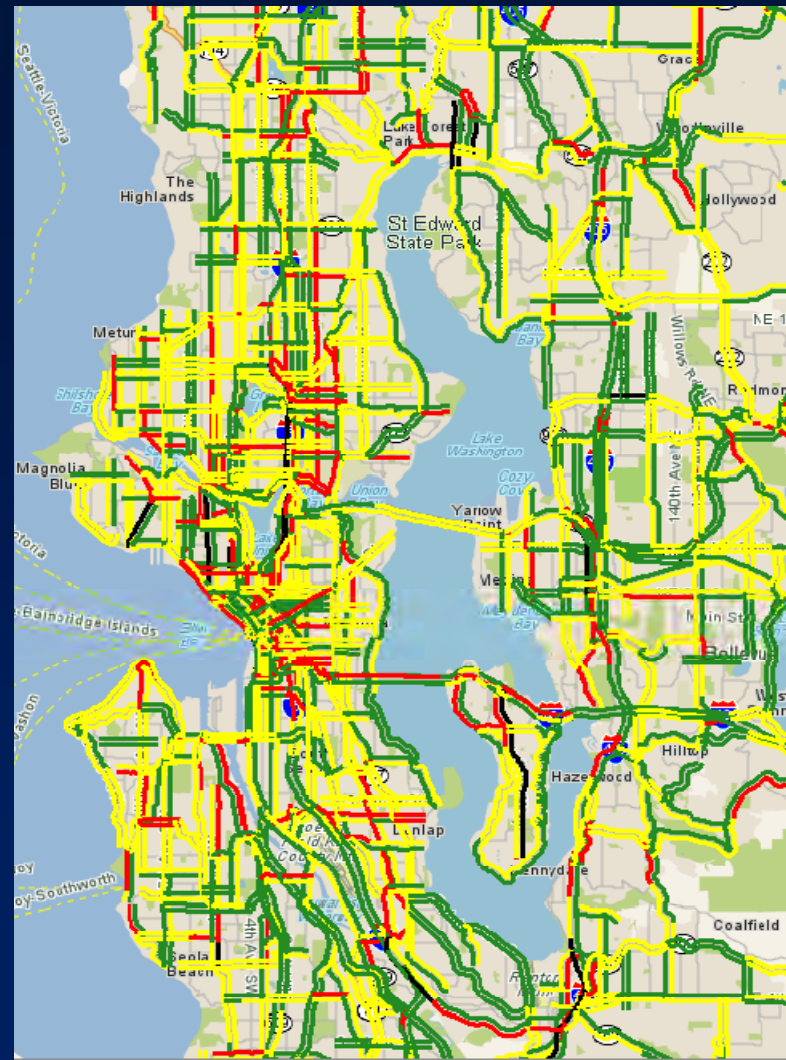
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Seattle Metro Coverage

Real-Time



Total Fusion



Public Sector Applications



The Public Sector's Leading Source for Private Traffic Data



INRIX is the nation's leading provider of private traffic data to government agencies —

INRIX intelligently blends data from hundreds of public and private sources — including the world's largest GPS vehicle probe network — to create a seamless picture of travel speeds and conditions across the primary roadways of the nation. Our unique technology and public-private partnership approach to doing business enables INRIX to provide the most accurate and comprehensive traffic data to the most extensive roster of public and private customers throughout the United States.

11 states, 5000 miles under contract (and growing) — Leading transportation agencies, consultants, integrators, and academic institutions are using our data today to support their operations, applications and analyses. Collaborating with these early adopters, INRIX has been able to refine and hone our product offerings, pricing and licensing terms, as well as demonstrate the value of our data to the public sector. INRIX real-time traffic information is available to the I-95

Corridor Coalition and government transportation agencies under contract in 11 states including Alabama, Delaware, Florida, Maryland, New Jersey, North Carolina, Pennsylvania, South Carolina, Virginia, Washington, D.C., and Wisconsin. We also have real-time, predictive and historical traffic services available today covering all major roadways in your state/region.

INRIX® Real-Time Traffic Flow Coverage in the U.S.

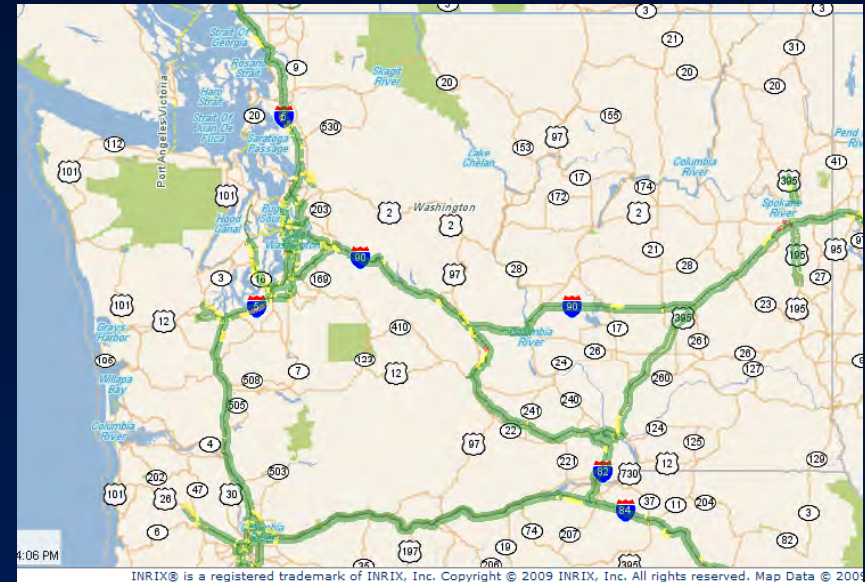


Benefits of licensing data from INRIX —

- ✓ **Broad Coverage** — Nearly all limited access roads in the U.S. are available today off-the-shelf.
- ✓ **Cost** — Data is provided to agencies under simple pricing models each of which is significantly less costly than the traditional alternatives.
- ✓ **Maintenance Free** — Properly operating and maintaining a sensor network requires substantial effort. Power and communications outages, vandalism, wear and tear, maintenance of traffic and worker safety are all concerns. INRIX data does not require a single new sensor to be deployed, operated or maintained.
- ✓ **Scalability** — Traditional data collection approaches require years of planning and implementation to cover entire regions or states. Often, as build-out of a large sensor network occurs, the early phases of implementation are technically or operationally obsolete before the network is even completed. INRIX data is available at the stroke of a pen on all major roads in an agencies area of interest. Agencies can start with coverage of any size and grow as needs and funding allows.
- ✓ **Network Effect** — A powerful attribute of the INRIX approach is that as new source data is added — more data from commercial vehicle and consumer device probes for example — all customers automatically benefit without any additional effort or cost from the customer perspective. INRIX is committed to continuing to increase source data. With nearly 10 times the data available today than 2 years ago, INRIX data is the highest quality traffic information on the market.
- ✓ **Licensing Terms** — INRIX has established the most liberal licensing terms in the industry. In short, agencies that license INRIX data can use it to support their internal and travel information applications without limitations.

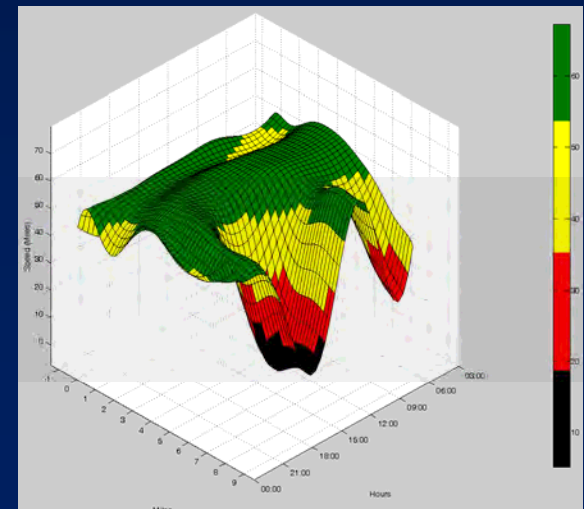
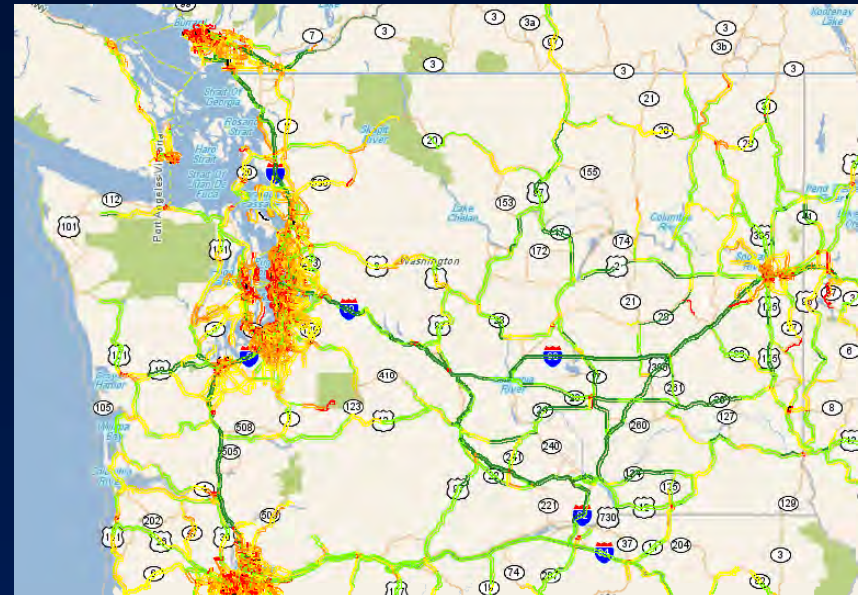
Current Solutions – Real-Time

- Products
 - Traffic Speeds/Travel Times
 - Route Travel Times
 - Traffic Alerts
 - “Slow traffic I-5 from Exit x to y, avg speed 25 MPH”
 - Weather Alerts
 - Road Closure Alerts
- Delivery methods
 - Data feed, monitoring site, overlay image (“tiles”)
- Current WA coverage – see above
 - Also support over the border coverage (OR, ID, BC)



Current Solutions – Analysis

- Products
 - Nationwide Average Speeds
 - Route Travel Times
 - Corridor Analysis
 - Scorecard
 - High Resolution Analysis (New)
- Delivery methods
 - Data feed, DVD, Reports
- Current WA coverage – see above
 - Real-time coverage plus state highways and urban arterials
 - Also support over the border coverage (OR, ID, BC)



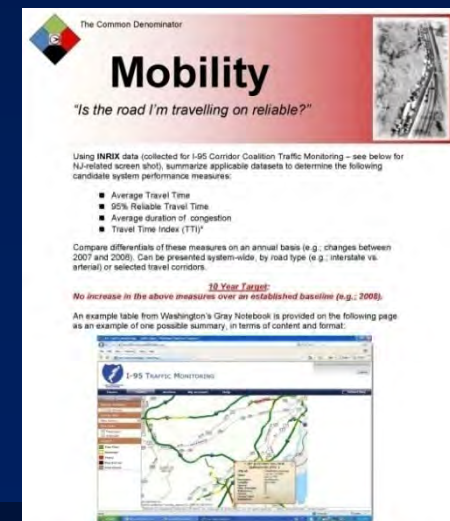
INRIX.

- # Hurricane Gustav Evacuation (Sept 1, 2009)



Sample Public Sector Projects

- **I-95 Corridor Coalition Vehicle Probe Project**
 - Situational Awareness
 - Travel Times on Signs
 - 511 Phone/Web support
 - Performance Measures
- **Alabama DOT – Travel Times on Signs**
- **South Carolina DOT – Travel Times on Signs**
- **Wisconsin DOT – Milwaukee to Green Bay**
Situational awareness





I-95 Vehicle Probe Project

Client

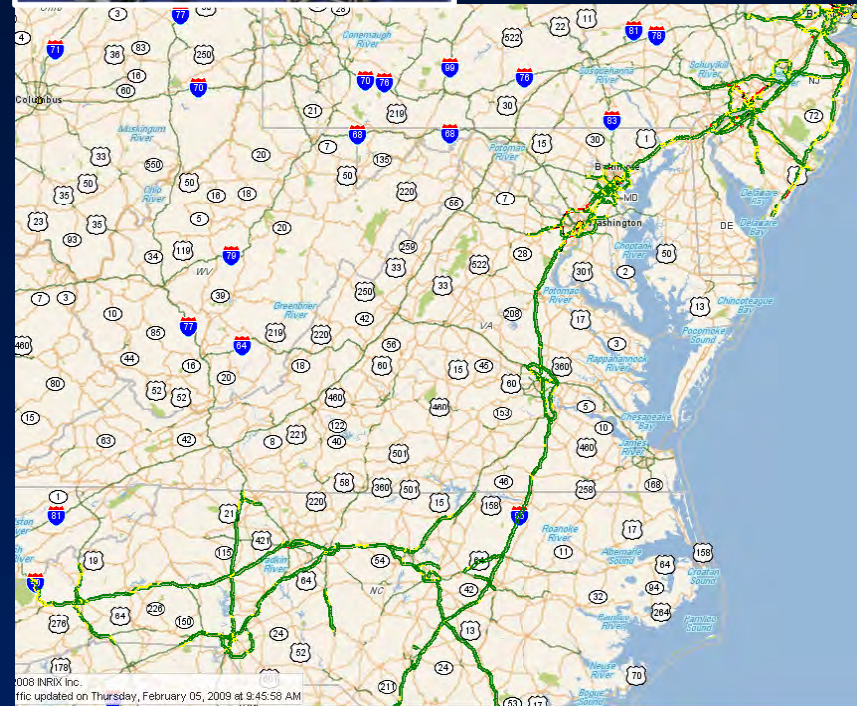
- I-95 Corridor Coalition

Coalition Background

- Coalition created by Congress in ISTEA
- Primary members transportation agencies from Maine to Florida

Need

- “a regional traffic monitoring system ...
- a continuous source of real-time transportation system status information within the Corridor.”



<http://www.i95coalition.org/vehicle-probe.html>



Project Status

Current Coverage

- Freeways: 2857 Centerline miles
- Arterials: 870 Centerline miles
- From NJ to NC
- ~ 9000 Road Segments

Data Access (as Mar 6, 2009)

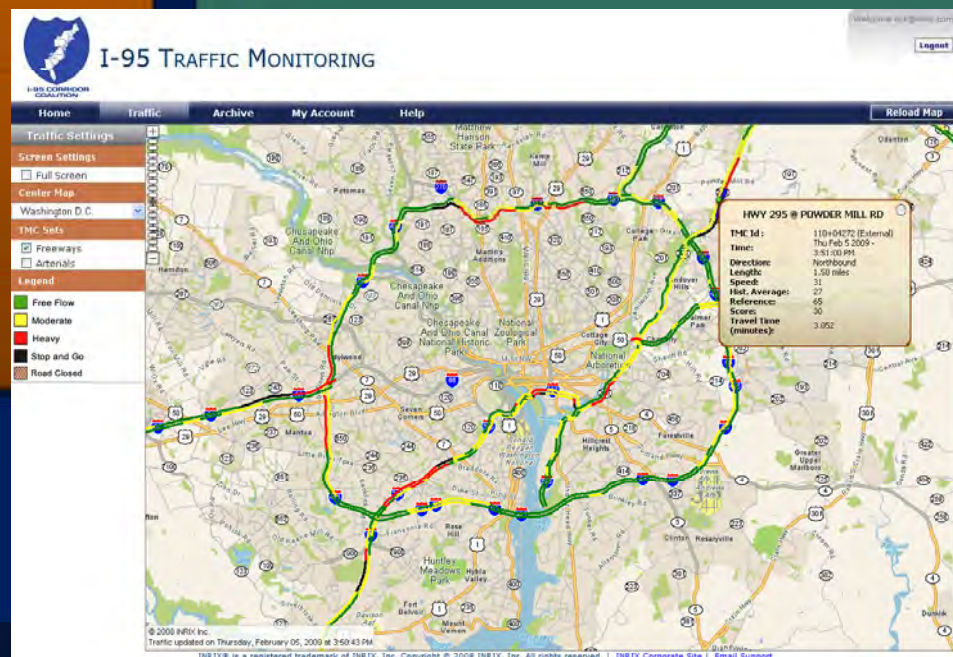
- 12 member agencies have access
- 127 monitoring site users
- 17 data feed users

Operational since July 2008

- Monitoring Site: 99.9%+
- Data Feed: 99.9%+

Breakthroughs/Models

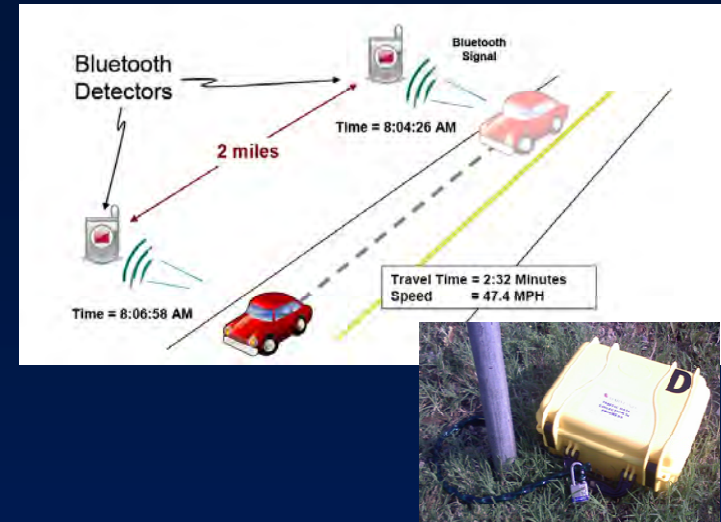
- Purchase data, not equipment
- INRIX pricing – per mile
- Multi-agency procurement
- Data licensing/use terms
- Validation methods
- Payment for performance metrics



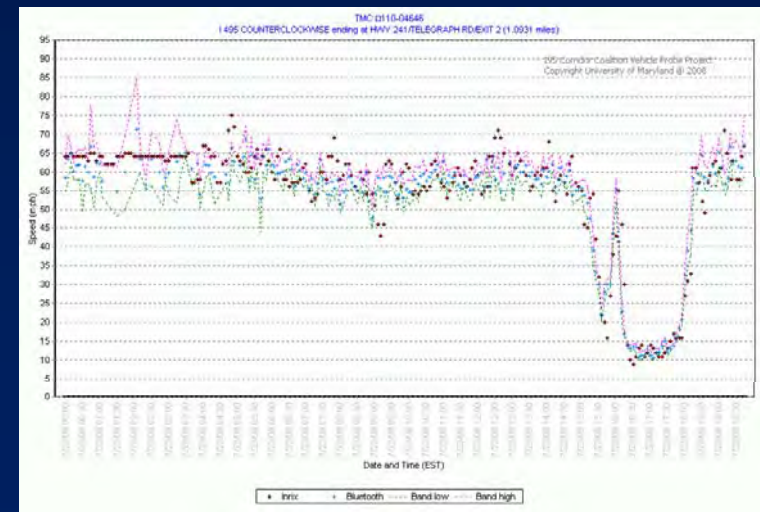


Initial Validation

- Data meets contract quality specifications
- Coalition/UMd utilized novel “Bluetooth” approach for testing
 - Largest test ever of this kind in U.S.
 - 54 segments, 111 miles
 - 1,500+ hours, 19,000+ observations
 - 4 states over 4 months



| Speed Range (MPH) | Average Absolute Error (MPH) | Speed Bias (MPH) | Total Observations | Observations Error < 5MPH |
|-------------------|------------------------------|------------------|--------------------|---------------------------|
| < 30 | 5.9 | 3.8 | 344 | 63% |
| 30-45 | 6.9 | 2.2 | 636 | 48% |
| 45-60 | 2.3 | 0.2 | 3904 | 84% |
| > 60 | 2.3 | -1.7 | 14,118 | 87% |
| Overall | 2.5 | -1.0 | 19,002 | 85% |



Looking Forward

- **Continuous quality improvements**
- **Expand “real-time” coverage**
 - **Arterials**
 - **State highways**
- **Expand support for performance measurement**
- **Pricing projects**
 - **VMT-like projects (w/o need for gas station retrofits)**
 - **Managed and priced lanes strategy optimization**
 - **Planning**
 - **Real-time changes based on conditions and near-term forecasts**

INRIX National Traffic Scorecard

INRIX® National Traffic Scorecard
2008 Annual Report

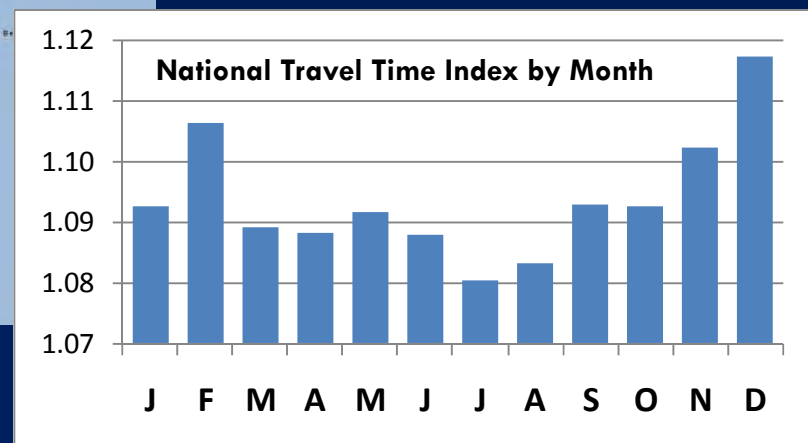


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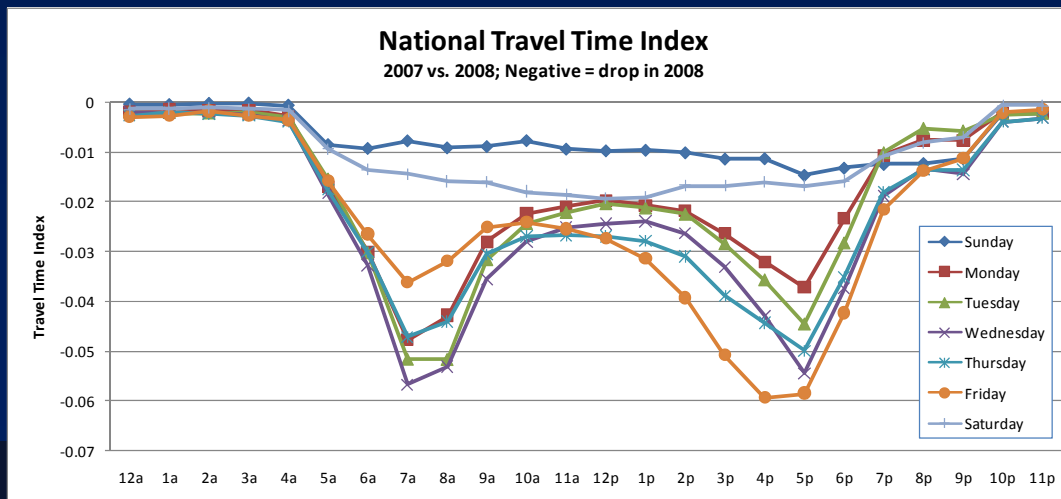
INRIX National Traffic Scorecard

- Annual Report of traffic conditions
- Major highways in top 100 metropolitan US markets
- Specific road segment performance analysis



Scorecard – 2008 Analysis

- **National Congestion vs. 2007**
 - Down ~30% overall
 - Down in 99 of 100 markets
 - Down every hour/day of week
- **National Bottlenecks**
 - **Worst Bottlenecks generally the same**
 - Biggest movers up/down were work zones
 - **Fewer total Bottlenecks identified**
 - Much moderate congestion “evaporated”



2008 Metropolitan Rankings

Total Peak Period Congestion

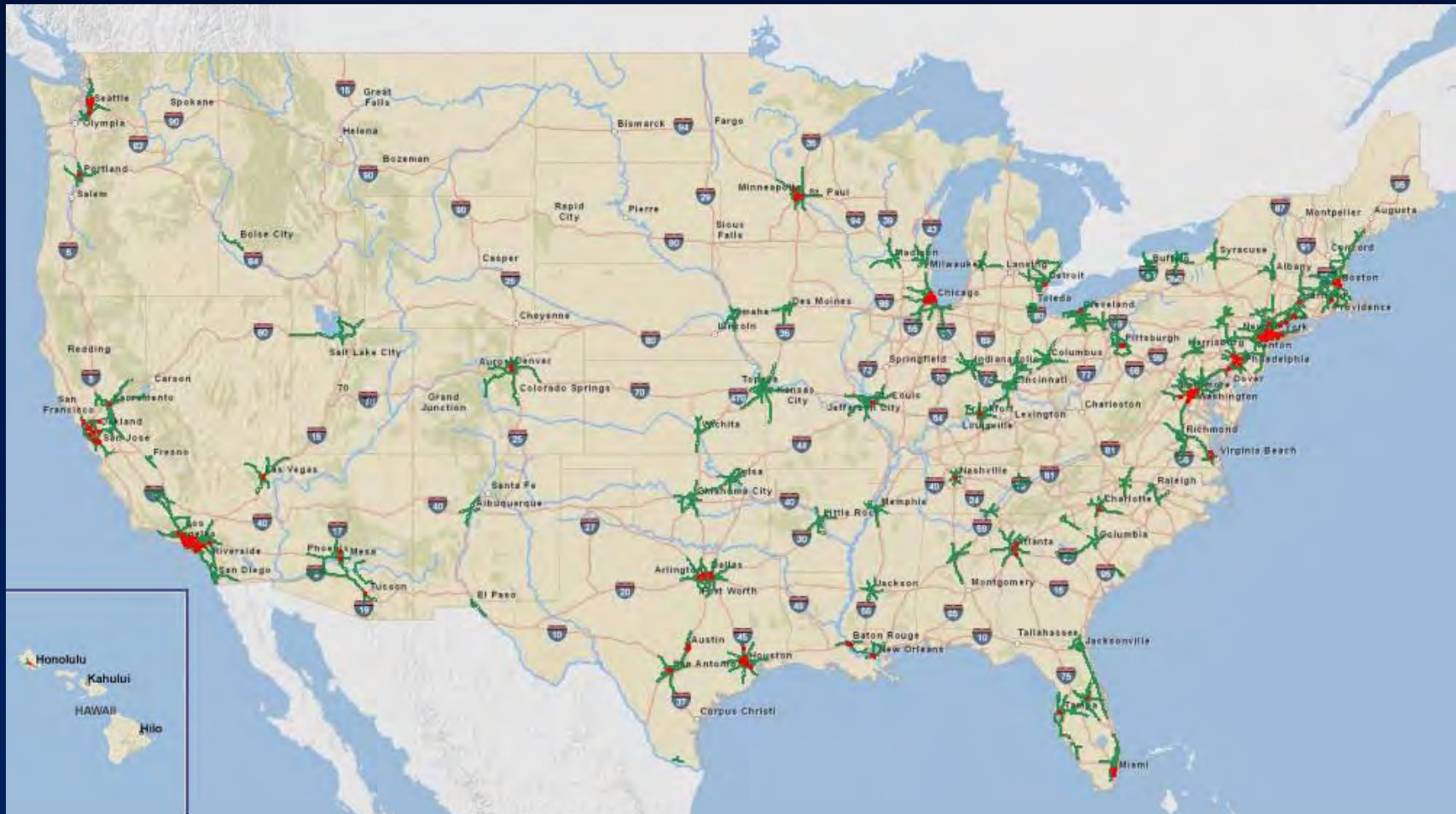
| Rank | Area (Population Rank) | % of Worst Market* | Rank Change from 2007 |
|------|---|--------------------|-----------------------|
| 1 | Los Angeles-Long Beach-Santa Ana CA (2) | 100% | 0 |
| 2 | New York-Northern New Jersey-Long Island NY-NJ-PA (1) | 87% | 0 |
| 3 | Chicago-Naperville-Joliet IL-IN-WI (3) | 48% | 0 |
| 4 | Dallas-Fort Worth-Arlington TX (4) | 39% | +1 |
| 5 | Washington-Arlington-Alexandria DC-VA-MD-WV (8) | 36% | -1 |
| 6 | Houston-Sugar Land-Baytown TX (6) | 34% | +1 |
| 7 | San Francisco-Oakland-Fremont CA (12) | 33% | -1 |
| 8 | Boston-Cambridge-Quincy MA-NH (10) | 27% | 0 |
| 9 | Seattle-Tacoma-Bellevue WA (15) | 24% | 0 |
| 10 | Minneapolis-St. Paul-Bloomington MN-WI (16) | 22% | +3 |

* % Compared to Worst Market (Los Angeles Region)

Peak Period Travel Time Index (TTI)

| Rank | Area (Population Rank) | TTI | Rank Change from 2007 |
|------|---|------|-----------------------|
| 1 | Los Angeles-Long Beach-Santa Ana CA (2) | 1.33 | +1 |
| 2 | Honolulu HI (54) | 1.31 | -1 |
| 3 | Austin-Round Rock TX (37) | 1.23 | +4 |
| 4 | San Francisco-Oakland-Fremont CA (12) | 1.23 | 0 |
| 5 | New York-Northern New Jersey-Long Island NY-NJ-PA (1) | 1.22 | 0 |
| 6 | Bridgeport-Stamford-Norwalk CT (56) | 1.21 | -3 |
| 7 | Washington-Arlington-Alexandria DC-VA-MD-WV (8) | 1.20 | +1 |
| 8 | Seattle-Tacoma-Bellevue WA (15) | 1.20 | -2 |
| 9 | Chicago-Naperville-Joliet IL-IN-WI (3) | 1.19 | +1 |
| 10 | San Jose-Sunnyvale-Santa Clara CA (31) | 1.16 | +1 |

Top 1000 National Bottlenecks (Red)



- 31 in Seattle area
- 14 in Portland area (1 in Washington)

Seattle Area Results

INRIX National Traffic Scorecard 2008 Annual Report

#9 Seattle Metropolitan Area
National Congestion Rank: #9 (2007 Rank: #9) Population Rank: #15 (3,309,347)



Overall Congestion
Congestion Compared to:
2007: -38.5%
Worst Metro Area (L.A.): 24%
Travel Time Index (TTI)¹
National TTI Rank: 8
Compared to 2007: -6.6%
Peak Travel Hour²
2008 Worst: Friday, 4-5 PM (TTI = 1.44)
2007 Worst: Friday, 4-5 PM (TTI = 1.55)



Worst Bottlenecks

| Bottleneck Rank | Regional | National | Road/Direction | Segment/Interchange | County | ST | Length (mi) | Hours of Congestion ³ | Avg Speed when Congested ³ (mph) |
|-----------------|----------|----------|----------------|-----------------------------------|--------|----|-------------|----------------------------------|---|
| 1 | 112 | 99 | Hwy 520 WB | Bellevue Way/Lake Washington Blvd | King | WA | 0.33 | 24 | 10.0 |
| 2 | 154 | 214 | Hwy 520 WB | 84TH AVE | King | WA | 0.43 | 32 | 15.3 |
| 3 | 160 | 216 | Hwy 520 WB | 108TH AVE | King | WA | 0.48 | 17 | 8.2 |
| 4 | 251 | 228 | I 405 SB | HWY 169/S 4TH ST/EXIT 4 | King | WA | 0.73 | 32 | 18.2 |
| 5 | 255 | 279 | I 405 SB | 8TH ST/SE 12TH ST/EXIT 12 | King | WA | 1.09 | 25 | 14.9 |
| 6 | 287 | 182 | I 5 SB | 45TH ST/EXIT 169 | King | WA | 1.46 | 34 | 21.3 |
| 7 | 315 | 298 | I 405 SB | 4TH ST/SE 13TH ST/EXIT 13 | King | WA | 0.22 | 20 | 13.0 |
| 8 | 357 | 483 | I 405 NB | 30TH ST/EXIT 6 | King | WA | 1.14 | 21 | 14.3 |
| 9 | 370 | 454 | I 5 NB | I 90/DEARBORN ST/EXIT 164 | King | WA | 1.36 | 33 | 22.4 |
| 10 | 390 | 328 | Hwy 520 WB | 92ND AVE | King | WA | 0.78 | 22 | 15.4 |
| 11 | 402 | 380 | I 5 NB | SEATTLE FWY/EXIT 163 | King | WA | 1.62 | 32 | 23.1 |
| 12 | 426 | 1255 | Hwy 518 EB | I 5 | King | WA | 0.16 | 19 | 13.2 |
| 13 | 427 | 513 | I 405 NB | HWY 900/NE 4TH ST/EXIT 4 | King | WA | 0.53 | 20 | 14.6 |
| 14 | 442 | 324 | I 5 NB | JAMES ST/EXIT 164 | King | WA | 0.69 | 28 | 19.6 |
| 15 | 447 | 644 | I 405 NB | 44TH ST/EXIT 7 | King | WA | 0.66 | 21 | 16.9 |
| 16 | 557 | 731 | I 405 NB | HWY 900/N 5TH ST/EXIT 5 | King | WA | 0.84 | 18 | 15.7 |
| 17 | 572 | 616 | I 5 NB | CORSON AVE/EXIT 162 | King | WA | 0.45 | 25 | 22.6 |
| 18 | 610 | 266 | I 5 SB | RAVENNA BLVD/EXIT 170 | King | WA | 0.70 | 24 | 22.3 |
| 19 | 621 | 886 | I 5 SB | LAKEVIEW BLVD/EXIT 168 | King | WA | 0.23 | 20 | 18.4 |
| 20 | 689 | 1256 | I 90 WB | I 5 | King | WA | 0.85 | 19 | 15.7 |
| 21 | 715 | 862 | I 5 SB | FAIRVIEW AVE/MERCER ST/EXIT 167 | King | WA | 0.70 | 19 | 19.2 |
| 22 | 732 | 835 | I 5 SB | HWY 520/EXIT 168 | King | WA | 1.36 | 19 | 19.5 |
| 23 | 734 | 374 | I 5 SB | HWY 522/73RD ST/EXIT 171 | King | WA | 0.69 | 22 | 23.1 |
| 24 | 756 | 796 | I 405 NB | HWY 181/VALLEY HWY/EXIT 1 | King | WA | 0.56 | 23 | 22.9 |
| 25 | 833 | 1210 | I 405 NB | LAKE WASHINGTON BLVD/EXIT 9 | King | WA | 1.95 | 17 | 19.0 |

Notes: 1 - Travel Time Index (TTI) is the ratio of actual to uncongested travel time. A ratio of 1.0 means 10% additional trip time due to congestion.
2 - Peak hours are limited to Friday, 4-5 PM (M-F) and 1-4 PM (S-S).
3 - Bottleneck "congestion" is defined as times when average hourly speed is half or less than the uncongested speed for that road segment. Additional information on the methodology used in this report is available at <http://scorecard.inrix.com>.

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A-9

Overall Congestion

Congestion Compared to

2007: -28.5%
Worst Metro Area (L.A.): 24%

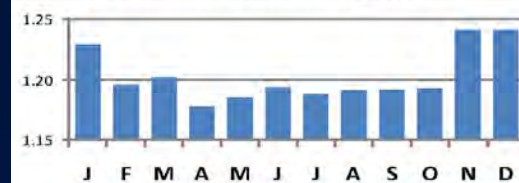
Travel Time Index (TTI)¹

TTI: 1.20
National TTI Rank: 8
Compared to 2007: -6.6%

Peak Travel Hour²

2008 Worst: Friday, 4-5 PM (TTI = 1.44)
2007 Worst: Friday, 4-5 PM (TTI = 1.55)

Travel Time Index¹ by Month



Worst Bottlenecks

| Bottleneck Rank | Regional | National | Road/Direction | Segment/Interchange | County | ST | Length (mi) | Hours of Congestion ³ | Avg Speed when Congested ³ (mph) |
|-----------------|----------|----------|----------------|-----------------------------------|--------|----|-------------|----------------------------------|---|
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| 2 | 154 | 214 | Hwy 520 WB | 84TH AVE | King | WA | 0.43 | 32 | 15.3 |
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| 5 | 255 | 279 | I 405 SB | 8TH ST/SE 12TH ST/EXIT 12 | King | WA | 1.09 | 25 | 14.9 |
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| 18 | 610 | 266 | I 5 SB | RAVENNA BLVD/EXIT 170 | King | WA | 0.70 | 24 | 22.3 |
| 19 | 621 | 886 | I 5 SB | LAKEVIEW BLVD/EXIT 168 | King | WA | 0.23 | 20 | 18.4 |
| 20 | 689 | 1256 | I 90 WB | I 5 | King | WA | 0.85 | 19 | 15.7 |
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Portland Area Results

INRIX National Traffic Scorecard 2008 Annual Report

#23

Portland Metropolitan Area

National Congestion Rank: #23 (2007 Rank: #21) Population Rank: #23 (2,175,113)



Overall Congestion

Congestion Compared to 2007: -15.7%

Worst Metro Area (L.A.): 10%

Travel Time Index (TTI)¹

TTI: 1.13

National TTI Rank: 14

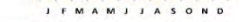
Compared to 2007: -5.8%

Peak Travel Hour²

2008 Worst: Friday, 4-5 PM (TTI = 1.35)

2007 Worst: Friday, 5-6 PM (TTI = 1.51)

Travel Time Index¹ by Month



CSA: Portland-Vancouver-Beaverton OR-WA

Worst Bottlenecks

| Bottleneck Rank | Regional | National | Road/Direction | Segment/Interchange | County | ST | Length (Mi) | Hours of Congestion ³ | Avg. Speed when Congested ⁴ (mph) |
|-----------------|----------|----------|---------------------------------|-------------------------------|------------|----|-------------|----------------------------------|--|
| 1 | 335 | 364 | I-5 NB | MARINE DR/EXIT 307 | Multnomah | OR | 0.76 | 23 | 14.8 |
| 2 | 501 | 442 | I-5 NB | VICTORY BLVD/EXIT 306 | Multnomah | OR | 0.51 | 20 | 15.9 |
| 3 | 530 | 664 | I-5 SB | N BROADWAY ST/EXIT 302 | Multnomah | OR | 0.56 | 21 | 15.8 |
| 4 | 584 | 701 | I-5 NB | COLUMBIA BLVD/EXIT 306 | Multnomah | OR | 0.76 | 19 | 16.2 |
| 5 | 587 | 651 | I-84 WB | GRAND AVE/HWY 99E/PACIFIC HWY | Multnomah | OR | 0.20 | 20 | 15.6 |
| 6 | 665 | 727 | I-5 NB | N TOMAHAWK ISLAND DR/EXIT 308 | Multnomah | OR | 0.53 | 23 | 20.0 |
| 7 | 699 | 736 | I-5 NB | ALBERTA ST/EXIT 303 | Multnomah | OR | 0.73 | 15 | 14.0 |
| 8 | 712 | 704 | I-5 NB | KILLINGSWORTH ST/EXIT 303 | Multnomah | OR | 1.12 | 16 | 15.3 |
| 9 | 748 | 754 | I-5 SB | VICTORY BLVD/EXIT 306 | Multnomah | OR | 0.60 | 21 | 20.2 |
| 10 | 846 | 829 | I-5 NB | US 30 BYP/LOMBARD ST/EXIT 305 | Multnomah | OR | 0.32 | 15 | 16.5 |
| 11 | 978 | 1066 | Sunset Hwy/US 26 EB | SKYLINE BLVD/EXIT 71 | Multnomah | OR | 0.57 | 18 | 20.7 |
| 12 | 987 | 963 | I-5 NB | PORTLAND BLVD/EXIT 304 | Multnomah | OR | 0.93 | 14 | 17.0 |
| 13 | 994 | 1373 | Sunset Hwy/US 26 EB | I-405/MARKET ST | Multnomah | OR | 0.60 | 20 | 20.0 |
| 14 | 1224 | 1502 | I-5 SB | WEIDLER ST/EXIT 302 | Multnomah | OR | 0.28 | 16 | 20.6 |
| 15 | 1281 | 1936 | Sunset Hwy/US 26 EB | HWY 8 | Multnomah | OR | 0.31 | 14 | 20.2 |
| 16 | 1515 | 1682 | I-5 SB | MARINE DR/EXIT 307 | Multnomah | OR | 0.65 | 13 | 20.9 |
| 17 | 1530 | 1570 | I-84 EB | LLOYD BLVD/NE 1ST AVE/EXIT 1 | Multnomah | OR | 0.68 | 14 | 21.5 |
| 18 | 1588 | 1739 | Beaverton Tigard Fwy/Hwy 217 SB | WALKER RD/EXIT 1 | Washington | OR | 0.92 | 11 | 19.2 |
| 19 | 1623 | 1265 | I-5 NB | I-405 | Multnomah | OR | 0.62 | 12 | 18.6 |
| 20 | 1643 | 1136 | Sunset Hwy/US 26 EB | CANYON RD/EXIT 72 | Multnomah | OR | 0.79 | 14 | 23.8 |
| 21 | 1677 | 1078 | Sunset Hwy/US 26 EB | CANYON RD/EXIT 73 | Multnomah | OR | 1.14 | 14 | 23.6 |
| 22 | 1712 | 2439 | I-405 SB | I-5 (PORTLAND) (SOUTH) | Multnomah | OR | 0.15 | 8 | 14.5 |
| 23 | 1718 | 709 | Pacific Hwy/I-5 SB | MILL PLAIN BLVD/EXIT 1 | Clark | WA | 0.64 | 10 | 19.2 |
| 24 | 1838 | 1288 | I-5 NB | I-405/US 30/EXIT 302 | Multnomah | OR | 0.80 | 10 | 18.9 |
| 25 | 1839 | 2684 | Sunset Hwy/US 26 WB | CORNELL RD/EXIT 65 | Washington | OR | 0.94 | 11 | 22.6 |

Notes: 1 - Travel Time Index (TTI) is the ratio of actual to uncongested travel time. A ratio of 1.10 means 10% additional trip time due to congestion.
2 - Peak hours are Monday to Friday, 4 to 10 AM and 3 to 7 PM.
3 - Bottleneck's "Congestion" is defined as the hours when average hourly speed is half or less than the uncongested speed for that road segment.
Additional information on the methodologies used in this report are available at <http://www.inrix.com>.

INRIX THE LEADING PROVIDER OF TRAFFIC INFORMATION

A-23



Overall Congestion

Congestion Compared to

2007: -35.7%

Worst Metro Area (L.A.): 10%

Travel Time Index (TTI)¹

TTI: 1.13

National TTI Rank: 14

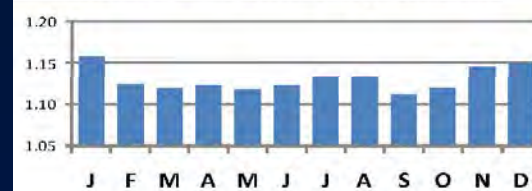
Compared to 2007: -5.8%

Peak Travel Hour²

2008 Worst: Friday, 4-5 PM (TTI = 1.35)

2007 Worst: Friday, 5-6 PM (TTI = 1.51)

Travel Time Index¹ by Month



Worst Bottlenecks

| Bottleneck Rank | Regional | National | Road/Direction | Segment/Interchange | County | ST | Length (Mi) | Hours of Congestion ³ | Avg. Speed when Congested ⁴ (mph) |
|-----------------|----------|----------|---------------------------------|-------------------------------|------------|----|-------------|----------------------------------|--|
| 1 | 335 | 364 | I-5 NB | MARINE DR/EXIT 307 | Multnomah | OR | 0.76 | 23 | 14.8 |
| 2 | 501 | 442 | I-5 NB | VICTORY BLVD/EXIT 306 | Multnomah | OR | 0.51 | 20 | 15.9 |
| 3 | 530 | 664 | I-5 SB | N BROADWAY ST/EXIT 302 | Multnomah | OR | 0.56 | 21 | 15.8 |
| 4 | 584 | 701 | I-5 NB | COLUMBIA BLVD/EXIT 306 | Multnomah | OR | 0.76 | 19 | 16.2 |
| 5 | 587 | 651 | I-84 WB | GRAND AVE/HWY 99E/PACIFIC HWY | Multnomah | OR | 0.20 | 20 | 15.6 |
| 6 | 665 | 727 | I-5 NB | N TOMAHAWK ISLAND DR/EXIT 308 | Multnomah | OR | 0.53 | 23 | 20.0 |
| 7 | 699 | 736 | I-5 NB | ALBERTA ST/EXIT 303 | Multnomah | OR | 0.73 | 15 | 14.0 |
| 8 | 712 | 704 | I-5 NB | KILLINGSWORTH ST/EXIT 303 | Multnomah | OR | 1.12 | 16 | 15.3 |
| 9 | 748 | 754 | I-5 SB | VICTORY BLVD/EXIT 306 | Multnomah | OR | 0.60 | 21 | 20.2 |
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| 14 | 1224 | 1502 | I-5 SB | WEIDLER ST/EXIT 302 | Multnomah | OR | 0.28 | 16 | 20.6 |
| 15 | 1281 | 1936 | Sunset Hwy/US 26 EB | HWY 8 | Multnomah | OR | 0.31 | 14 | 20.2 |
| 16 | 1515 | 1682 | I-5 SB | MARINE DR/EXIT 307 | Multnomah | OR | 0.65 | 13 | 20.9 |
| 17 | 1530 | 1570 | I-84 EB | LLOYD BLVD/NE 1ST AVE/EXIT 1 | Multnomah | OR | 0.68 | 14 | 21.5 |
| 18 | 1588 | 1739 | Beaverton Tigard Fwy/Hwy 217 SB | WALKER RD/EXIT 1 | Washington | OR | 0.92 | 11 | 19.2 |
| 19 | 1623 | 1265 | I-5 NB | I-405 | Multnomah | OR | 0.62 | 12 | 18.6 |
| 20 | 1643 | 1136 | Sunset Hwy/US 26 EB | CANYON RD/EXIT 72 | Multnomah | OR | 0.79 | 14 | 23.8 |
| 21 | 1677 | 1078 | Sunset Hwy/US 26 EB | CANYON RD/EXIT 73 | Multnomah | OR | 1.14 | 14 | 23.6 |
| 22 | 1712 | 2439 | I-405 SB | I-5 (PORTLAND) (SOUTH) | Multnomah | OR | 0.15 | 8 | 14.5 |
| 23 | 1718 | 709 | Pacific Hwy/I-5 SB | MILL PLAIN BLVD/EXIT 1 | Clark | WA | 0.64 | 10 | 19.2 |
| 24 | 1838 | 1288 | I-5 NB | I-405/US 30/EXIT 302 | Multnomah | OR | 0.80 | 10 | 18.9 |
| 25 | 1839 | 2684 | Sunset Hwy/US 26 WB | CORNELL RD/EXIT 65 | Washington | OR | 0.94 | 11 | 22.6 |

Scorecard Implications

- **Process Implications**

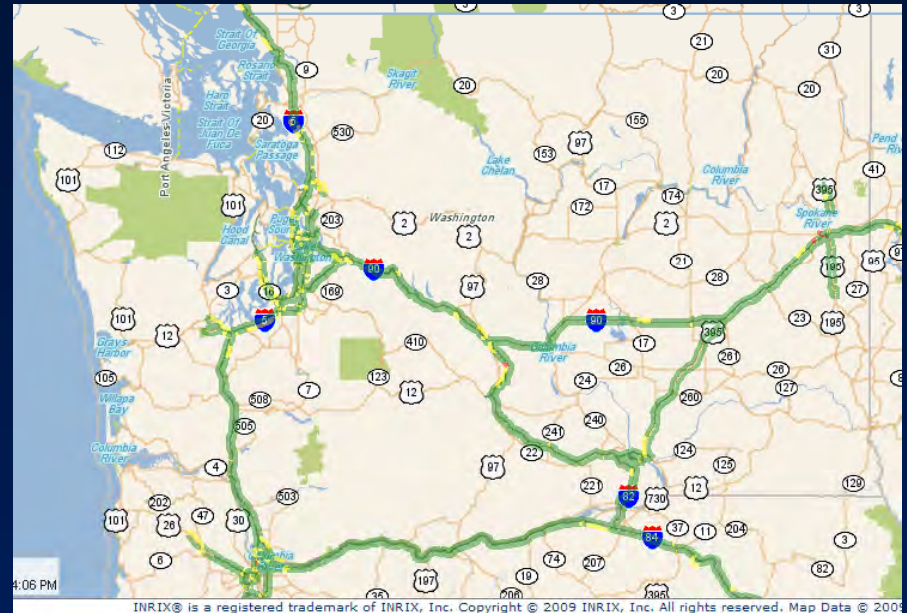
- “Keeping score” is possible and increasingly easy
- More markets, road segments, time slices and road types than before
- Output of results can occur quicker than ever
- Can integrate with other datasets
- Support “before/after,” trend, and reliability analyses

- **Policy Implications**

- Even in a slowdown with high/volatile fuel prices, congestion is a pervasive problem
- **Bottlenecks are everywhere**
 - Construction’s double edge sword – near-term pain, long-term gain
- **2007 Lessons**
 - No margin for error in many cities
- **2008 Lessons**
 - All little demand management can help a lot – at least in some places

Scorecard – Final Notes

- INRIX will continue to provide national level results in the public domain
- Data supporting Scorecard available for licensing by agencies/others
- Coverage available beyond Seattle and Portland metros
 - Spokane (107th largest metro)
 - Olympia (182nd largest metro)
 - Bremerton (183rd largest metro)
 - Non-urban real-time coverage (e.g. I-5, I-90, etc.)



Overview and National Traffic Scorecard

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